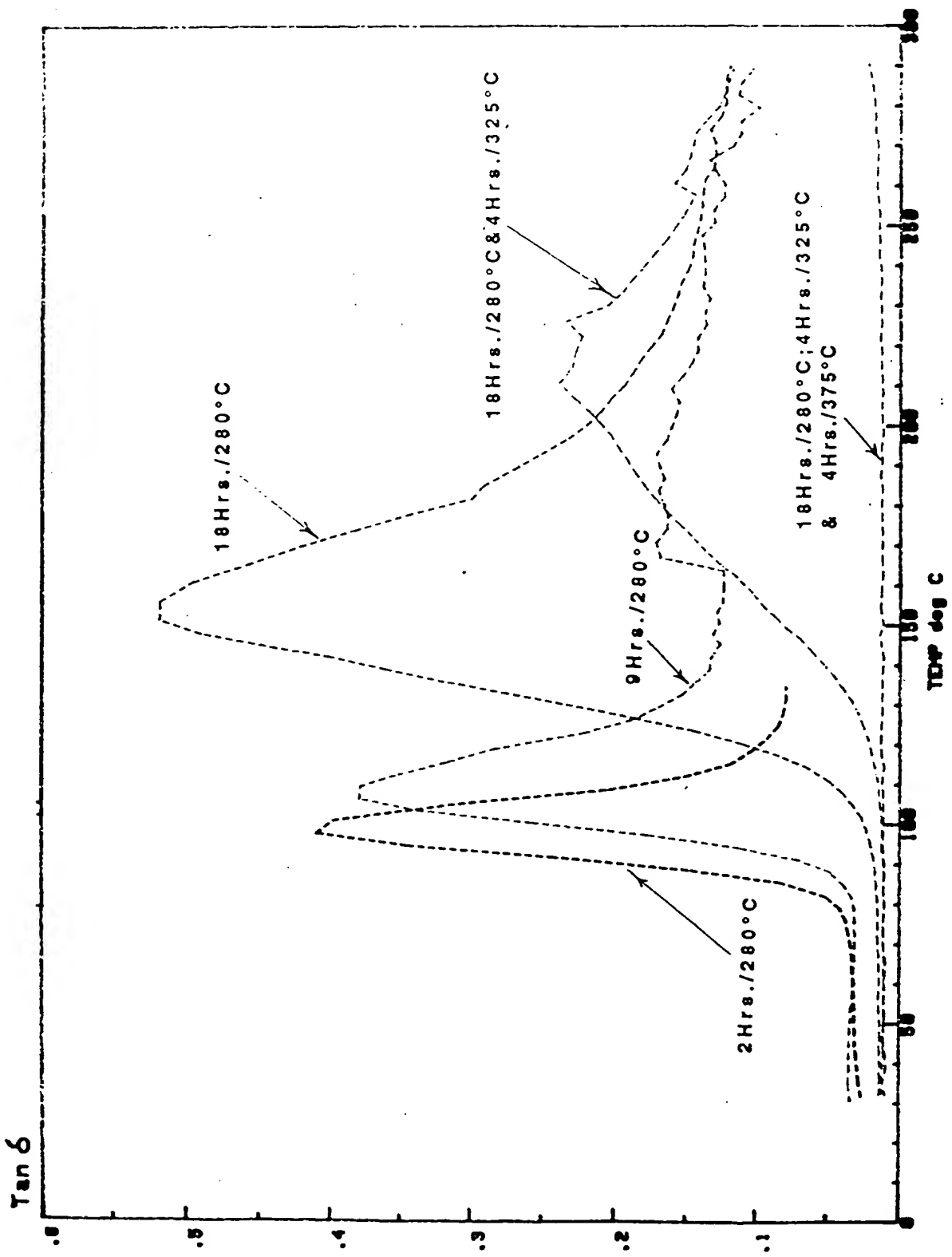


4684L 2M

0084587 042897  
268240 26854800



PL DMTA

--- 1 Hz

0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOCK = 2.818  
DUAL CONT  
4.588900032E-004

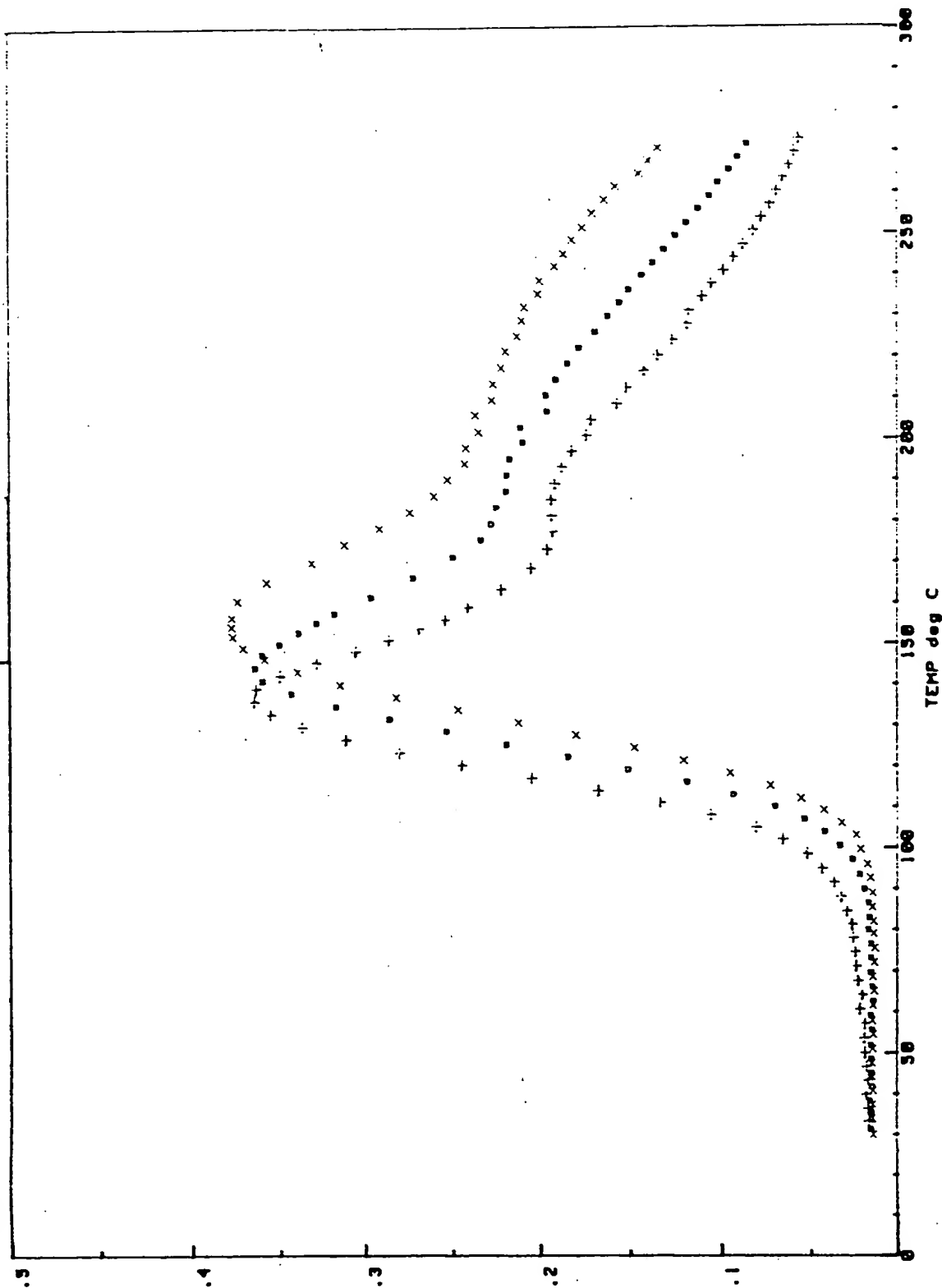
T B.F

Best Available Copy

268240" 26854830

Cu-Ph  
9H0280C

Tan  $\delta$



PL  
DMTA

x 10 Hz  
□ 1 Hz  
+ .1 Hz

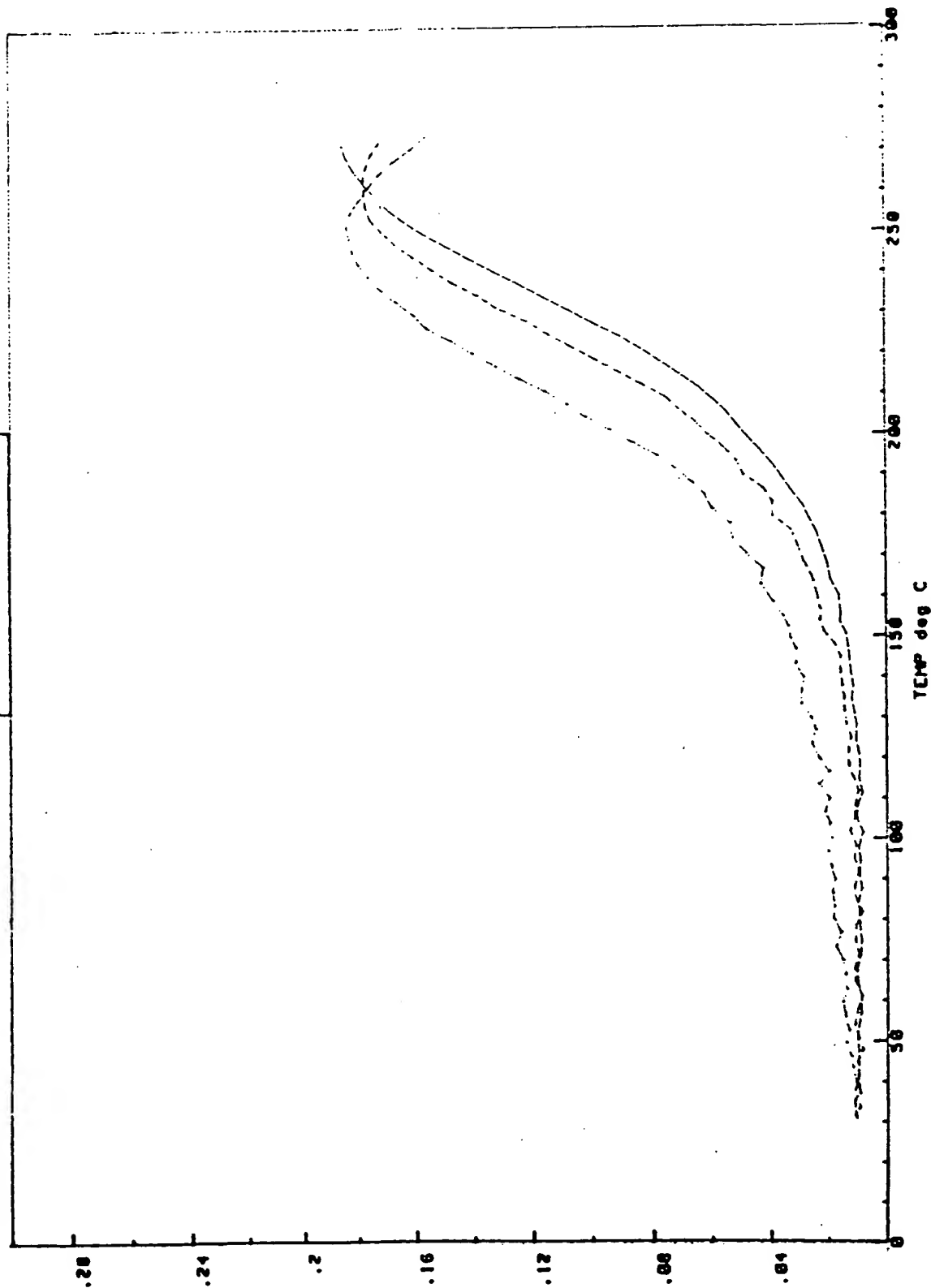
0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOCK = 2.62  
DUAL CANT  
4.49x9.96x7mm

Fig. 2

268240" 26854880

Cu-Ph  
16H0280C:4H0325C

Tan  $\delta$



DMTA

--- 10 Hz  
--- 1 Hz  
... 0.1 Hz

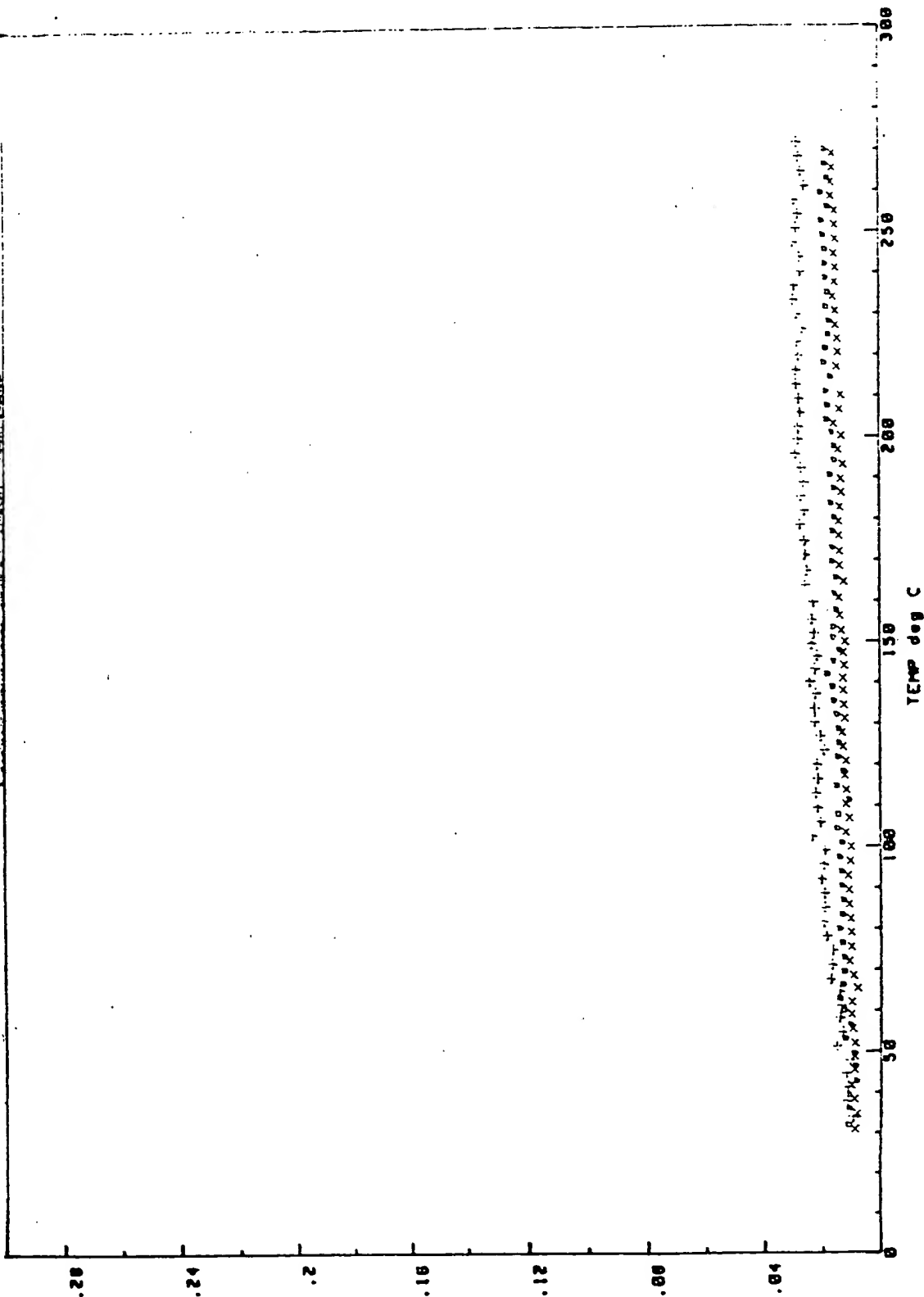
0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOGk = 2.882  
DUAL CANT  
4.21x3.75x2mm

Fig. 3

7684597 04297

Cu-Ph  
16H0280C;4H0325C;4H0375C

Tan  $\delta$



DTA

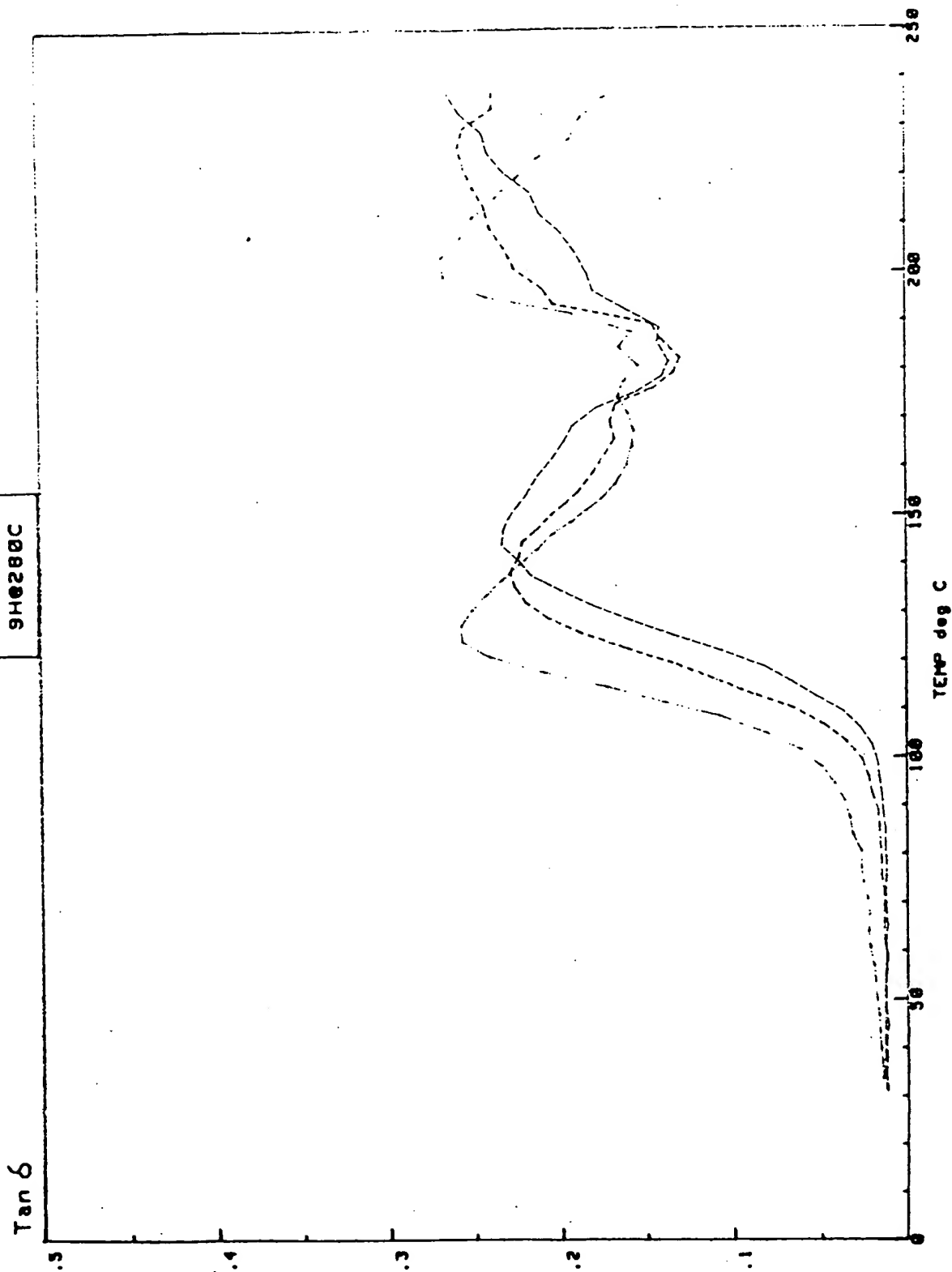
x 10 Hz  
y 1 Hz  
z 1 Hz

0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOCK = 2.503  
DUAL CANT  
4.21x9.77x7mm

Fig. 4

06845897 042897 268240 26854880

Ti-Ph  
9H0200C



PL

DMTA

--- 10 Hz

- - - 1 Hz

— 0.1 Hz

0.1, 1 & 10

STRAIN = 4

2 degC/min

-LOG $\alpha$  = 2.689

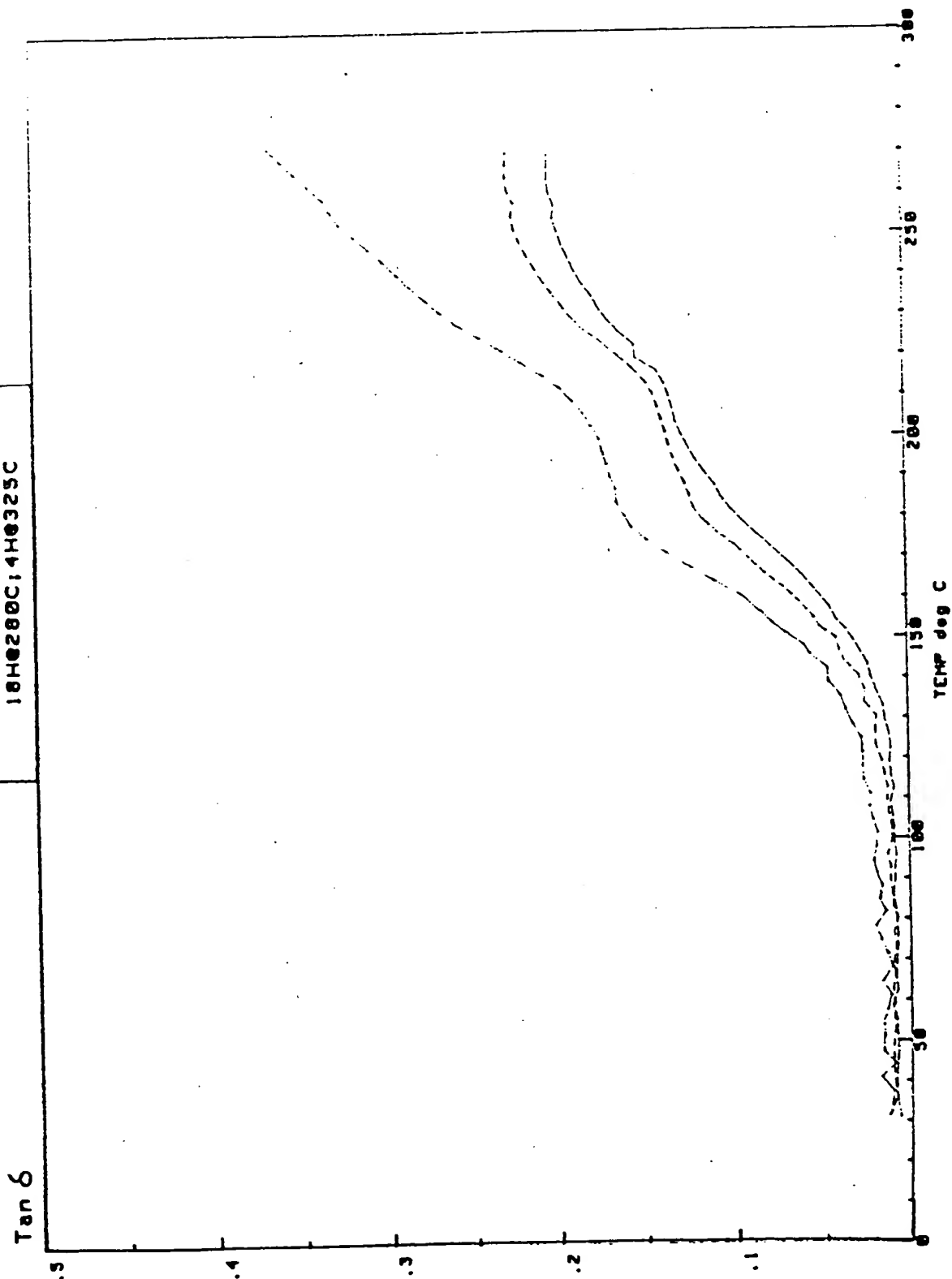
DUAL CANT

4.54x10.81x7mm

Fig. 5

468240" 46854880

Ph/Ti Composite  
10H0280C;4H0325C



DMTA

--- 10 Hz  
--- 1 Hz  
--- 0.1 Hz

0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOGA = 2.613  
DUAL CANT  
4.51x10x7mm

Fig. 6

268240" 26854880

Ph/Ti Composite  
18H0280C;4H0325C;4H0375C

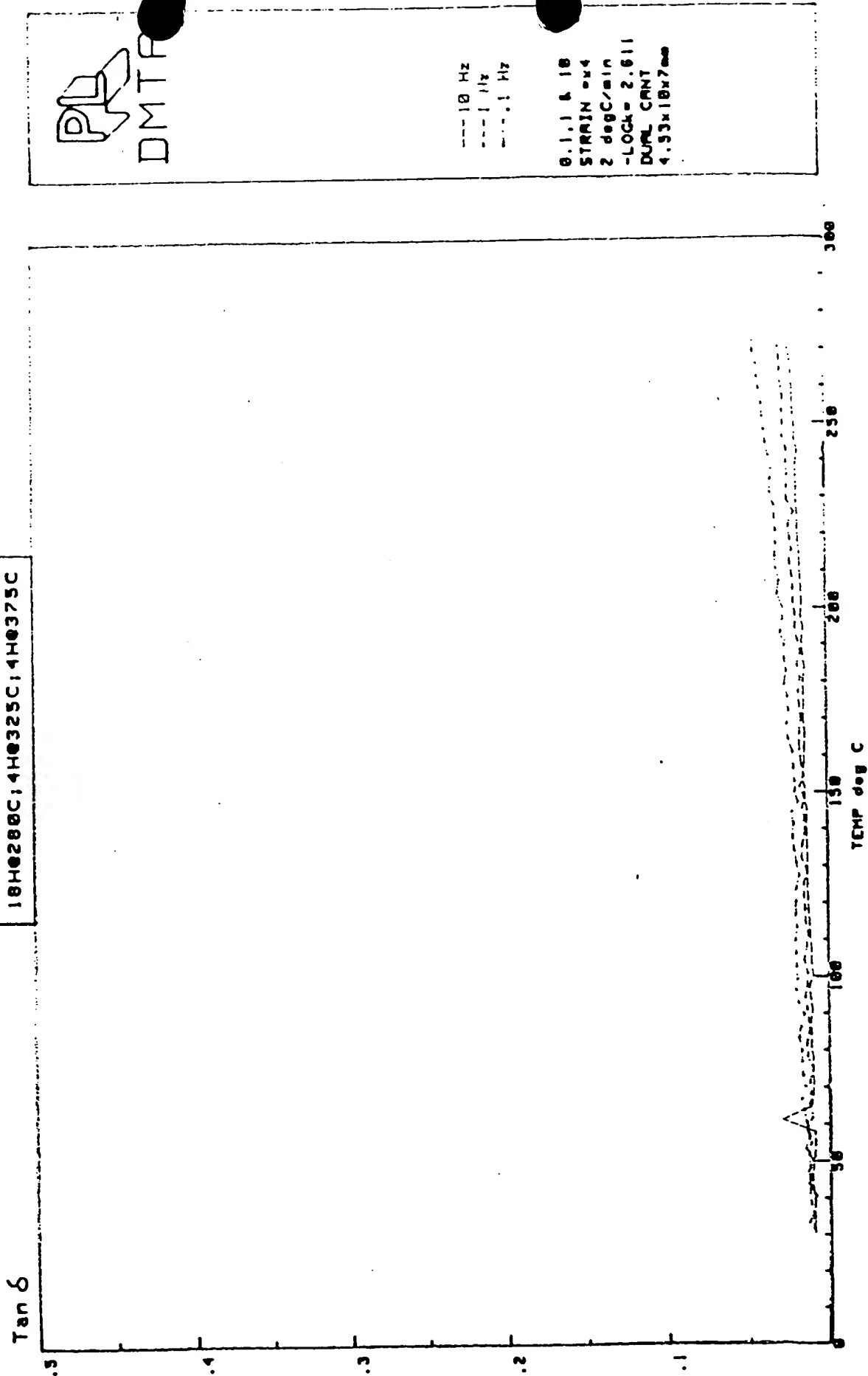
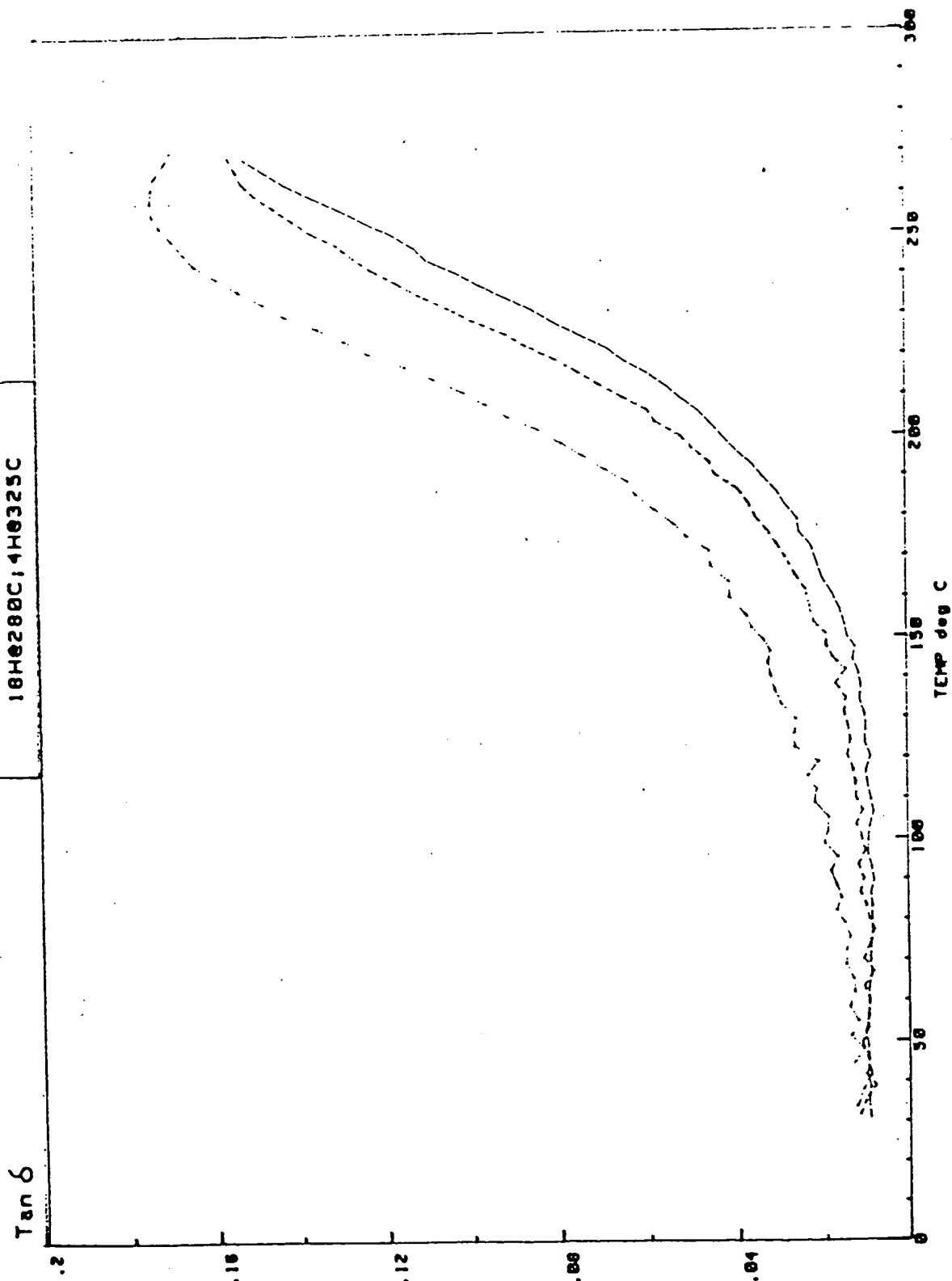


Fig. 7

468240" 46854880

Ph/Zn Composite  
18He280C14He325C



DMTA

--- 10 Hz  
-- 1 Hz  
... 0.1 Hz

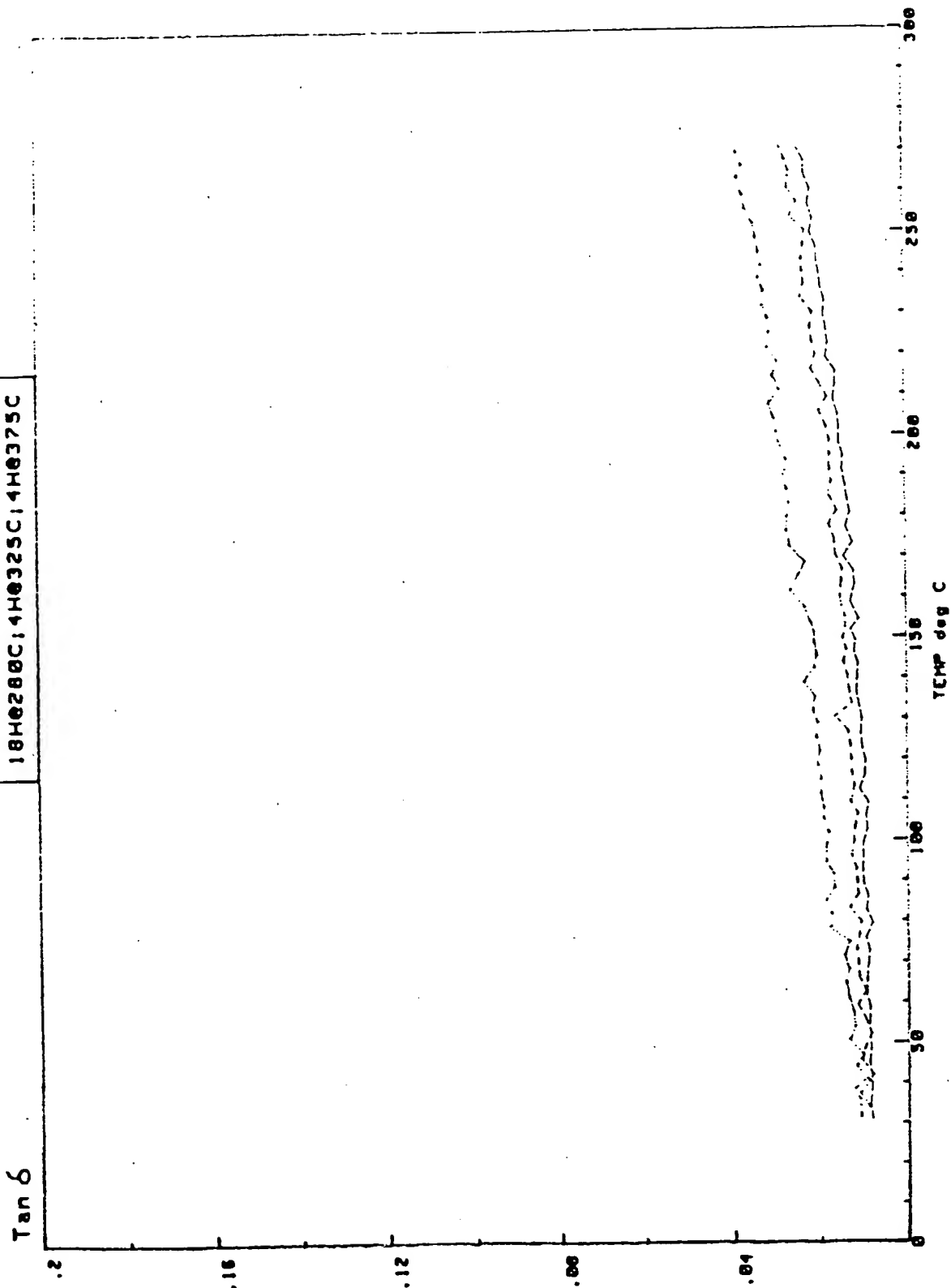
8.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOGk = 2.615  
DUAL CANT  
4.51x10x7mm

Fig. 8



768240" 76854880

Ph/Zn Composite  
18H0280C;4H0325C;4H0375C



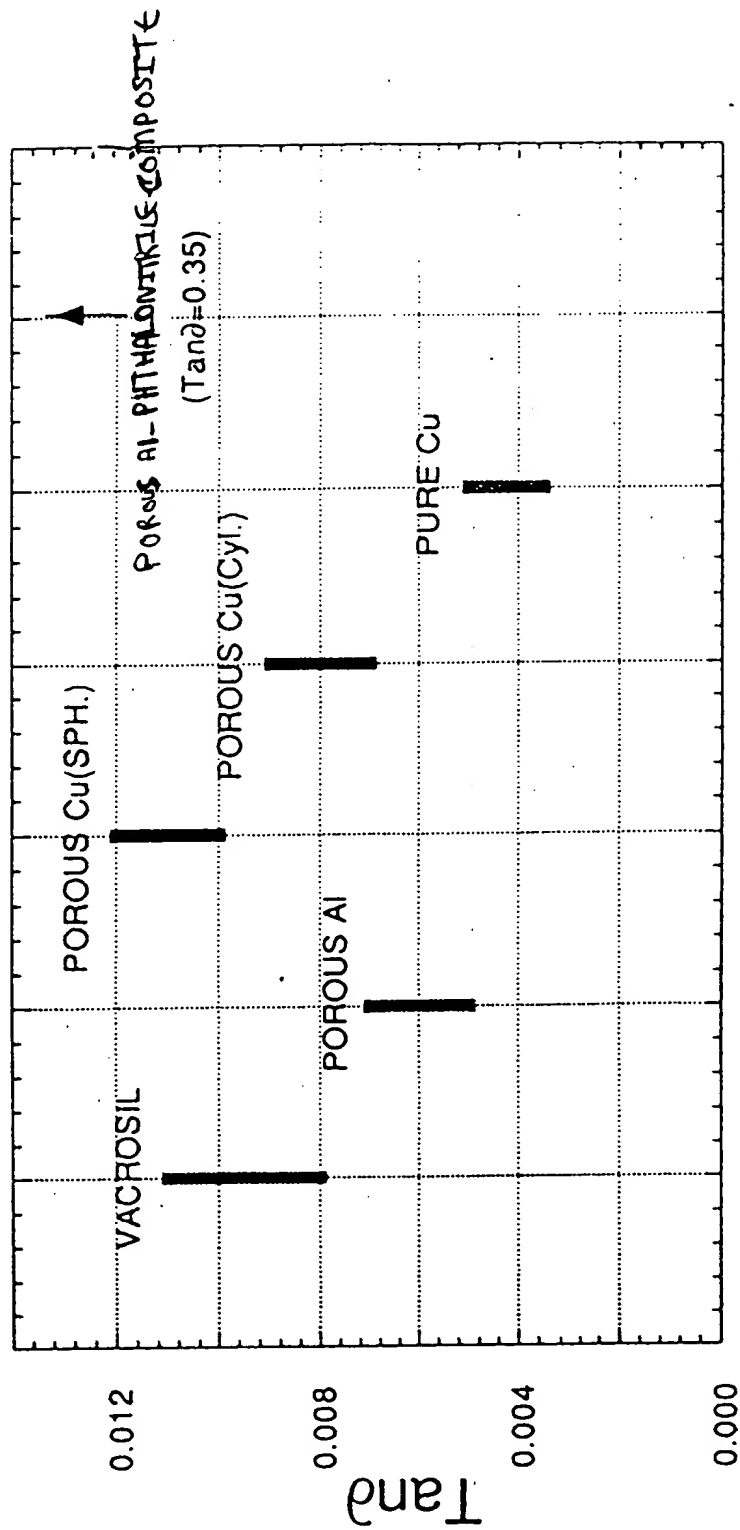
PL DMTA

----- 10 Hz  
- - - - 1 Hz  
- . . . 0.1 Hz

0.1, 1 & 10  
STRAIN = 0.4  
2 degC/min  
-LOCK = 2.615  
DUAL CANT  
4.51x10^-7 mm

Fig. 9

Tan $\delta$  Over Frequency Range of 0.1 to 10 Hz



MATERIALS

268240-26854880

WHITE RUBBER AL FORM

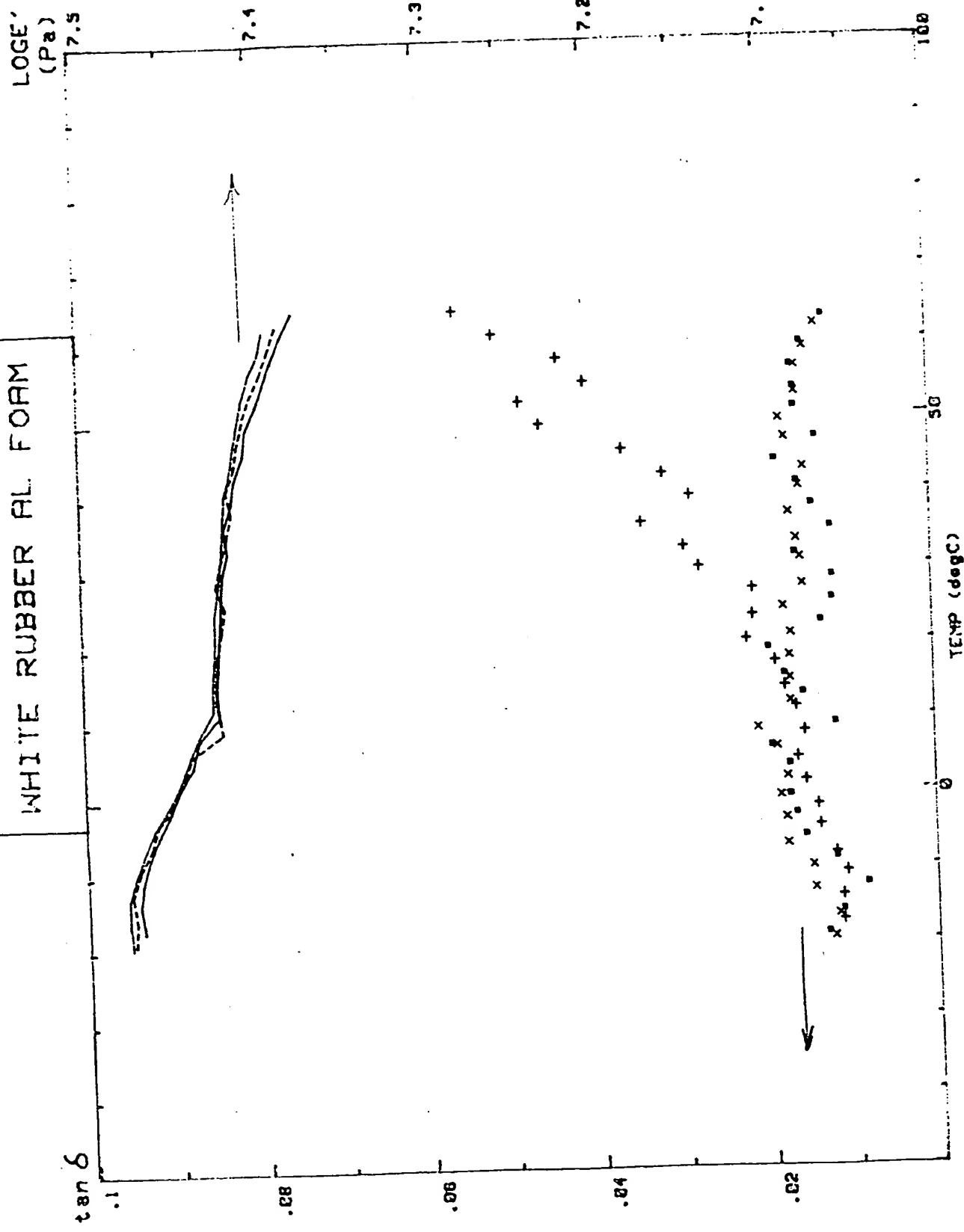
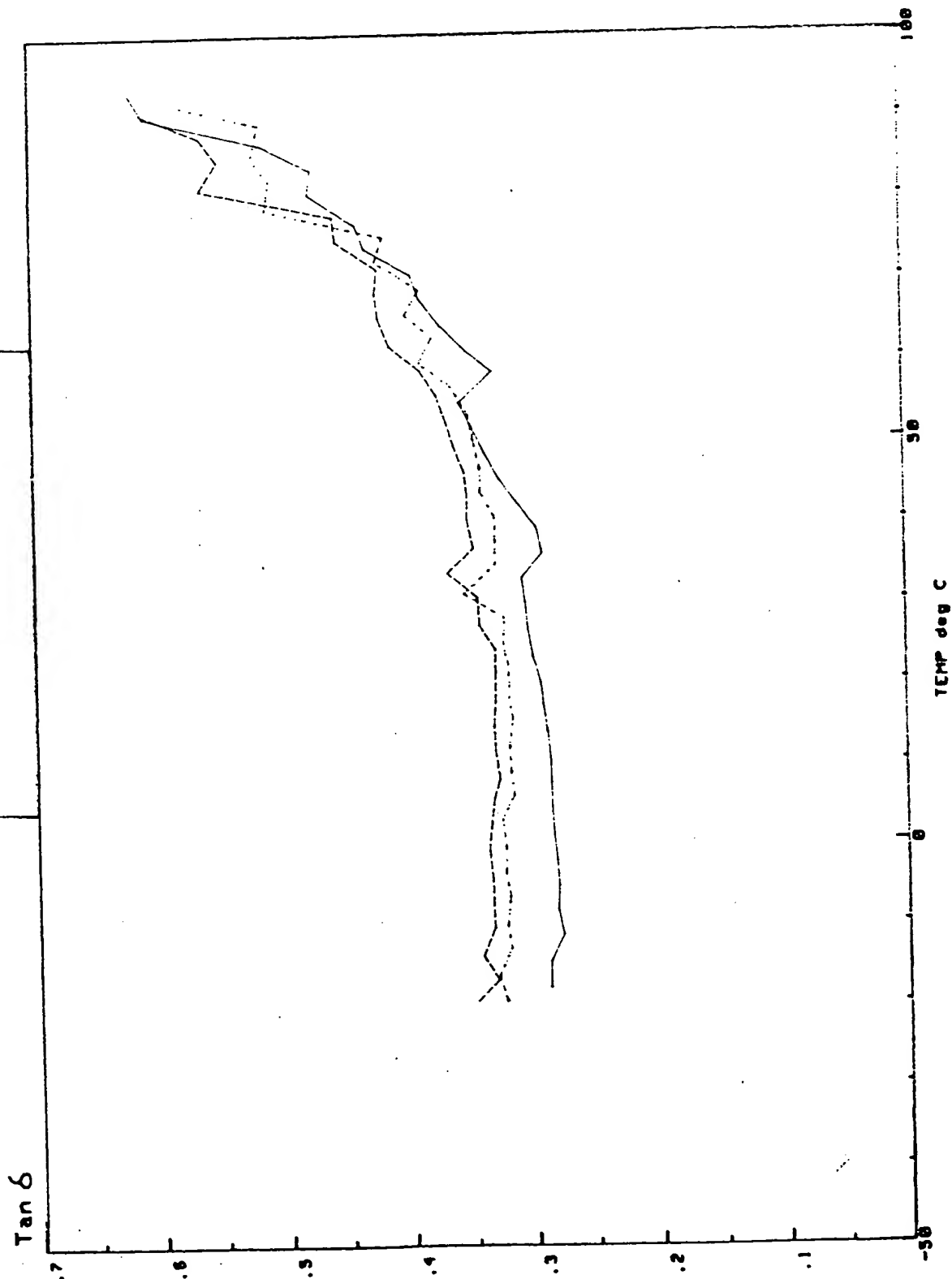


Fig. 11

468240" 46854880

RED RUBBER AL FORM



PL  
DMTA

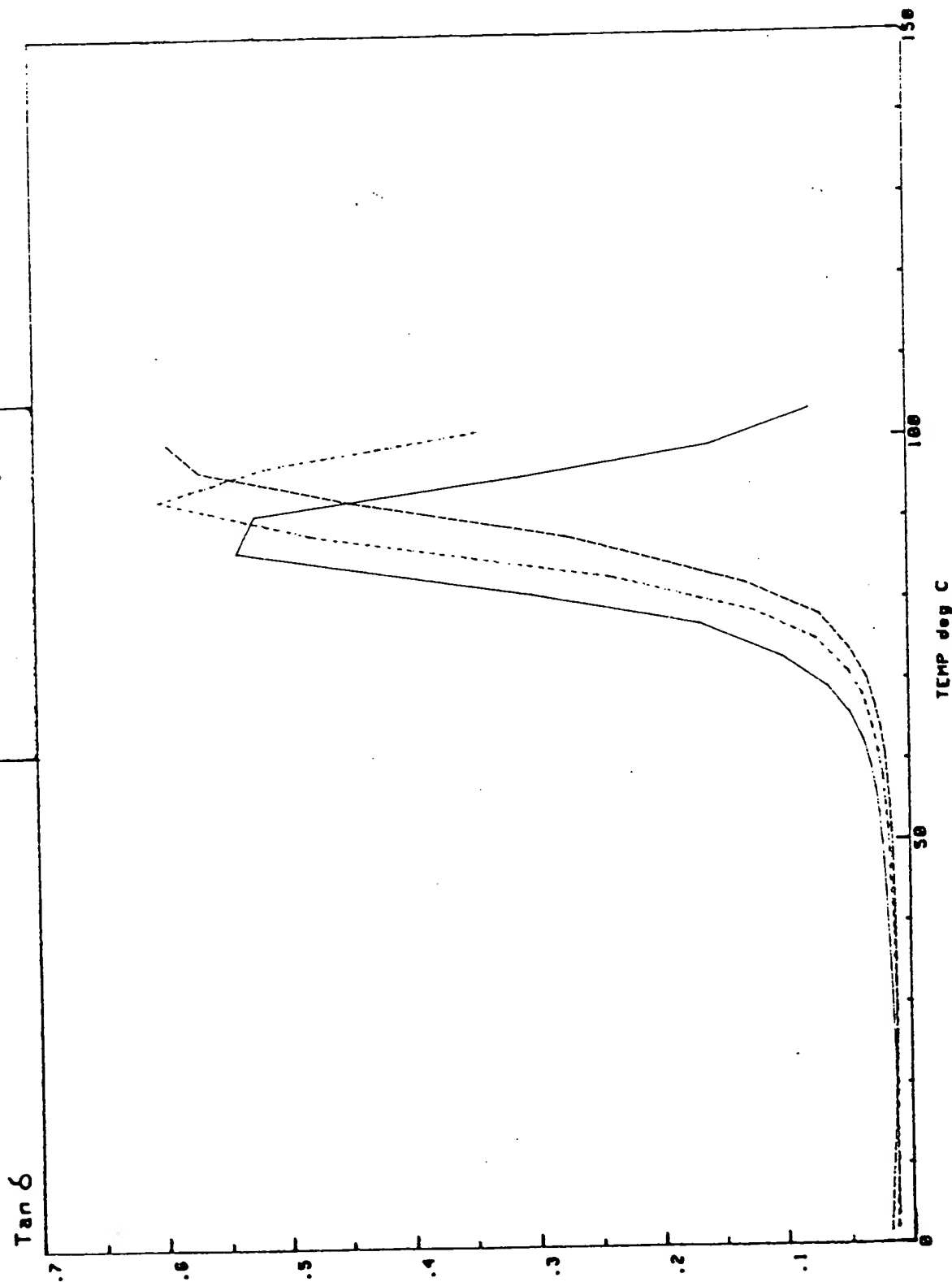
--- 10 Hz  
--- 1 Hz  
--- 0.1 Hz

0.1, 1 & 10  
STRAIN = 4  
2 degC/min  
-LOG = 3.863  
SINGLE CANT  
4.6x11.3x13mm

Fig. 12

042897 26854890

EPOXY AL FORM



PL  
DMTA

--- 10 Hz

- - - 1 Hz

0.1, 1 & 10

STRAIN = 4

2 degC/min

-LOCK= 3.978

SINGLE CANT

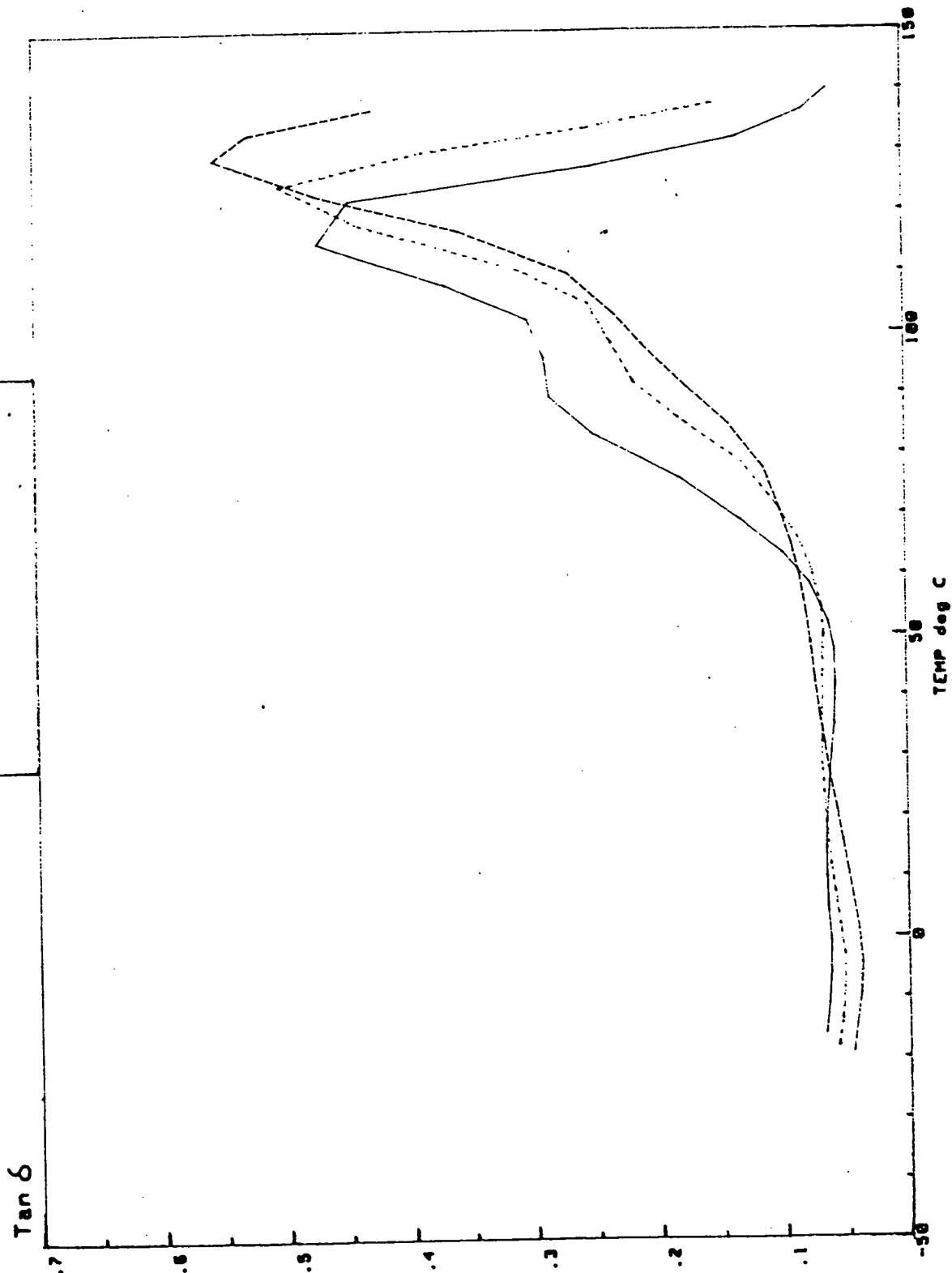
4.31x10.35x19mm

TEMP deg C

E1 B17

268240" 26854830

ACRYLIC AL FORM



PLA  
DMTA

--- 10 Hz

.... 1 Hz

— 0.1 Hz

0.1, 1 & 10

STRAIN = 4

3 degC/min

-LOG = 4.095

SINGLE CANT

3.034x10.94x19mm

Fig. 14

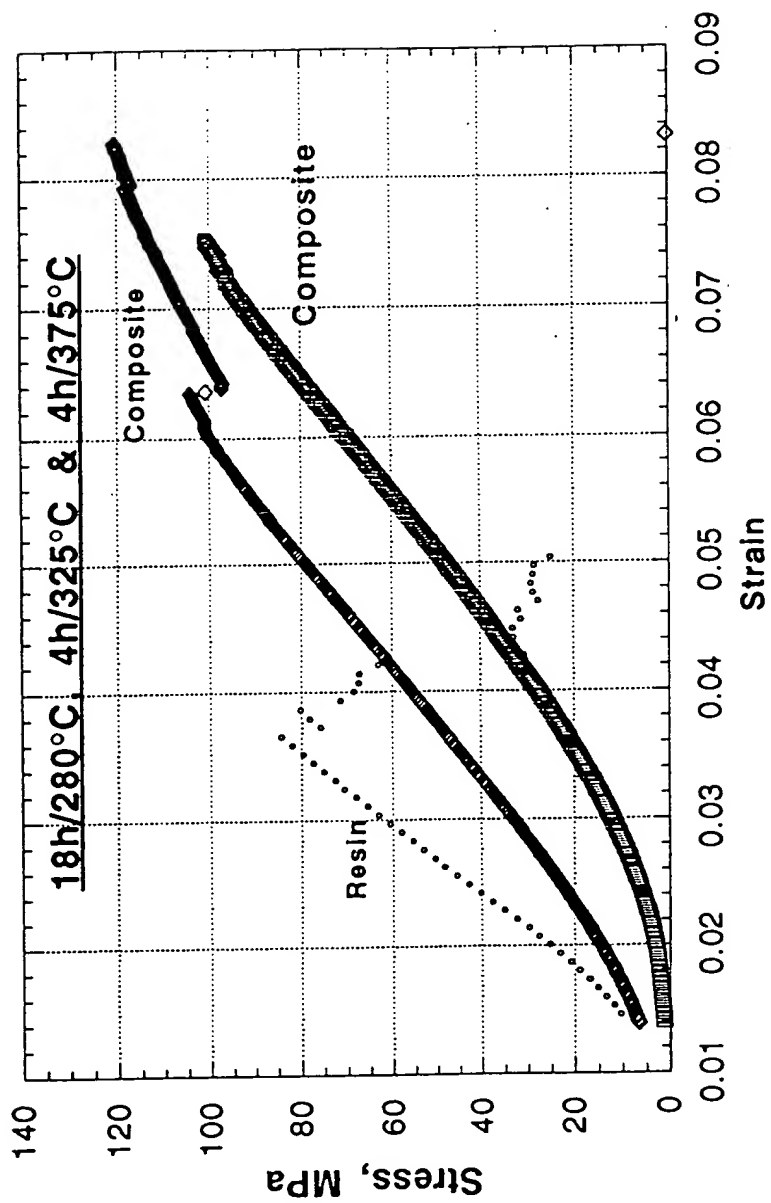
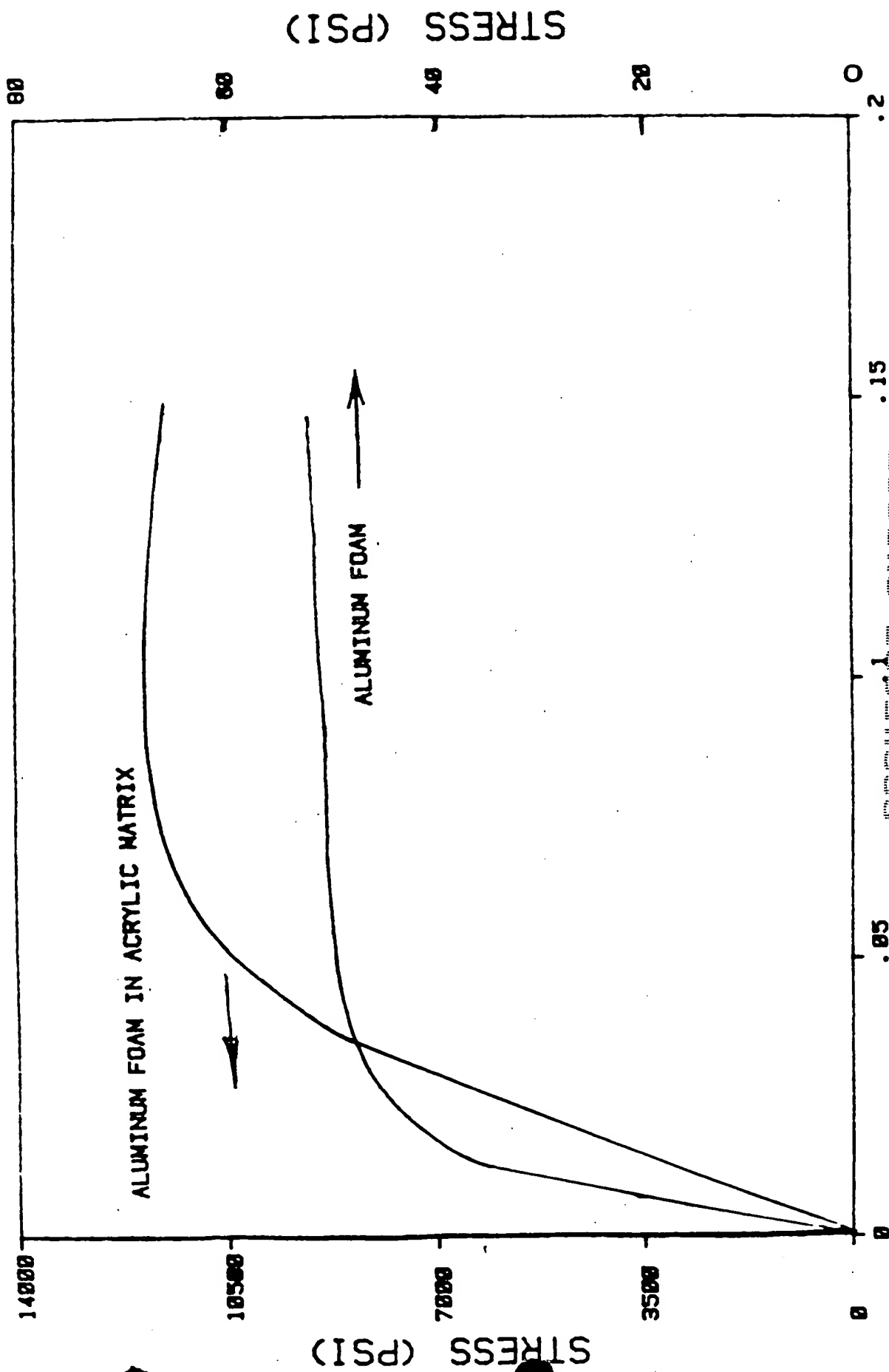


Fig. 15

08845897-042897

# STRESS VS STRAIN





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